Recombinant Human Interleukin-11

Cat. No. IL11-19H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The protein is produced in*P. Pichia*by recombinant DNA technology. The protein has a molecular mass of approximately 19,000 Daltons and is non-glycosylated. The protein is 177 amino acids in length and differs from the 178 amino acid length of native IL-11 only in lacking the amino-terminal praline residue.
Species	Human
Source	Yeast
Description	IL-11 is a thrombopoietic growth factor that directly stimulates the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells and induces megakaryocyte maturation resulting in increased platelet production. IL-11 is a member of a family of human growth factors which includes human growth hormone, granulocyte colony-stimulating factor and other growth factors.
Purity	>95% as determined by SDS-PAGE and SEC-HPLC.
Formulation	The protein was lyophilized from a concentrated (1mg/ml) solution with no additives.
Specific Activity	The ED50 as determined by the dose-dependant stimulation of the proliferation of murine 7TD1 was found to be less than 0.2ng/ml, corresponding to a Specific Activity of 8.0 x 10^6IU/ mg.
Endotoxin	Less than 2ng/mg (2IEU/mg) determined by LAL test.

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Reconstitution	It is recommended to reconstitute the lyophilized rHuIL-11 in sterile 18MΩ-cm H_2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.
Storage	Lyophilized rHuIL-11 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHuIL-11 should be stored at 4°C between 2-7 days and for future use below -18°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Aliquot to avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	IL11
Synonyms	AGIF; IL-11; Adipogenesis inhibitory factor, Oprelvekin, Interleukin-11; IL11; interleukin 11
Gene ID	3589
mRNA Refseq	NM_000641
Protein Refseq	NP_000632
MIM	147681
UniProt ID	P20809
Chromosome Location	19q13.3-q13.4
Pathway	Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Jak-STAT signaling pathway

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Function	cytokine activity, interleukin-11 receptor binding activity

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